

**In the Claims:**

1.-33. (Cancelled)

34. (Previously Amended) An isolated nucleic acid comprising the nucleotide sequence as shown in SEQ ID. No. 2.

35.-45. (Cancelled)

46. (Currently Amended) An isolated nucleic acid which comprises between about 100 and 7000 consecutive nucleotides of SEQ ID NO:2, wherein said nucleic acid contains the nucleotide corresponding to the nucleotide at positions 8845-8850 of SEQ ID NO:2.

47. (Currently Amended) ~~An~~ The isolated nucleic acid of claim 46, which comprises between about ~~15~~ 250 and 7000 consecutive nucleotides of SEQ ID NO:2.

48. (Currently Amended) ~~An~~ The isolated nucleic acid of claim 46, which comprises between about ~~20~~ 750 and 7000 consecutive nucleotides of SEQ ID NO:2.

49. (Currently Amended) ~~An~~ The isolated nucleic acid of claim 46, which comprises between about ~~25~~ 1000 and 7000 consecutive nucleotides of SEQ ID NO:2.

50. (Currently Amended) ~~An~~ The isolated nucleic acid of claim 46, which comprises between about ~~30~~ 1250 and 7000 consecutive nucleotides of SEQ ID NO:2.

51. (Currently Amended) ~~An~~ The isolated nucleic acid of claim 46, which comprises between about ~~400~~ 1500 and 7000 consecutive nucleotides of SEQ ID NO:2.

52. (Currently Amended) ~~An~~ The isolated nucleic acid of claim 46, which comprises between about ~~5000~~ 1750 and 7000 consecutive nucleotides of SEQ ID NO:2.

53. (Previously Added) An isolated nucleic acid that is a complement of the isolated nucleic acid of claim 46.

54. (Currently Amended) ~~An~~ The isolated nucleic acid of claim 46, further comprising a label.

55. (Previously Added) The isolated nucleic acid of claim 54, wherein the label is selected from the group consisting of: a radiolabel, an enzyme, a fluorescent compound, streptavidin, avidin, biotin, a magnetic moiety, a metal-binding moiety, an antigen moiety and an antibody moiety.

56. (Previously Added) The nucleic acid of claim 46, wherein the nucleic acid is bound to a solid phase support.

57. (Previously Added) The nucleic acid of claim 46, wherein the nucleic acid is part of a probe array.

58. (Currently Amended) ~~An~~ The isolated nucleic acid of claim 46 which comprises between about ~~132~~ 2000 and 7000 consecutive nucleotides of SEQ ID NO:2, ~~wherein said nucleic acid contains positions 8714-8845 of SEQ ID NO:2.~~

59. (Currently Amended) ~~An~~ The isolated nucleic acid of claim ~~58~~ 46, which comprises between about ~~150~~ 2500 and 7000 consecutive nucleotides of SEQ ID NO:2.

60. (Currently Amended) ~~An~~ The isolated nucleic acid of claim ~~58~~ 46, which comprises between about ~~200~~ 3000 and 7000 consecutive nucleotides of SEQ ID NO:2.

61. (Currently Amended) ~~An~~ The isolated nucleic acid of claim ~~58~~ 46, which comprises between about ~~300~~ 3500 and 7000 consecutive nucleotides of SEQ ID NO:2.

62. (Currently Amended) ~~An~~ The isolated nucleic acid of claim ~~58~~ 46, which comprises between about ~~500~~ 4000 and 7000 consecutive nucleotides of SEQ ID NO:2.

63. (Currently Amended) ~~An~~ The isolated nucleic acid of claim ~~58~~ 46, which comprises between about ~~1000~~ 4500 and 7000 consecutive nucleotides of SEQ ID NO:2.

64. (Currently Amended) ~~An~~ The isolated nucleic acid of claim ~~58~~ 46, which comprises between about 5000 and 7000 consecutive nucleotides of SEQ ID NO:2.

65. - 69. (Cancelled)